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State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

_____ District Cove 47 - 017 County Doddridge API Quad Oxford Pad Name Bode Field/Pool Name Farm name Ryan C. Shields & Lisa Shields _____ Well Number B-858 Operator (as registered with the OOG) Berry Energy Inc. Zip 26302 State WV City Clarksburg Address 310 Stiles Street Attach an as-drilled plat, profile view, and deviation survey As Drilled location NAD 83/UTM Northing 4332433.7 Easting 521514.3 Top hole Easting Northing Landing Point of Curve Bottom Hole Northing Easting Elevation (ft) 1128 Type of Report | Interim | Final GL Type of Well ■New □ Existing Permit Type □ Deviated □ Horizontal □ Horizontal 6A ■ Vertical ■ Shallow Depth Type □ Deep □ Plug Back □ Redrilling □ Rework ■ Stimulate Type of Operation □ Convert □ Deepen ■ Drill Well Type □ Brine Disposal □ CBM ■ Gas ■ Oil □ Secondary Recovery □ Solution Mining □ Storage □ Other _____ Fluids Produced □ Brine ■Gas □ NGL ■ Oil □ Other _ Type of Completion □ Single ■ Multiple Drilled with □ Cable **■** Rotary Intermediate hole ■ Air □ Mud □ Fresh Water □ Brine Drilling Media Surface hole ■ Air □ Mud □ Fresh Water Production hole ■ Air □ Mud □ Fresh Water □ Brine Mud Type(s) and Additive(s) NA Date drilling commenced 02/10/2014 Date drilling ceased _ 10/02/2013 02/16/2014 Date permit issued 03/31/2014 Date completion activities ceased Date completion activities began Verbal plugging (Y/N) N Date permission granted Granted by Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug 134' Freshwater depth(s) ft Open mine(s) (Y/N) depths Void(s) encountered (Y/N) depths _____REGEIWET N Salt water depth(s) ft _____ Cavern(s) encountered (Y/N) depths of Oil NO NONE Coal depth(s) ft ____ Is coal being mined in area (Y/N) NOV Reviewed by:

WV Department of Environmental Protection

							_		
API 47- 017	06367	Farm n	_{ame} Ryan	C. Shields	& Lisa Shi	ields_ _{We}	ll number_B-	858	
CASING STRINGS	Hole Size	Casing Size	Depth	New o Used			Basket Depth(s)		nt circulate (Y/N) details below*
Conductor	17 1/2"	13"	30'	NEV	v	37#	N		Υ
Surface	12 1/4"	9 5/8"	210'	NEV	v	26#	N		Υ
Coal									1
Intermediate 1	8 7/8"	7"	1275'	NEV	v	17#	N		Υ
Intermediate 2		-					-		
Intermediate 3									
Production	6 1/4"	4 1/2"	2900'	NEV	V 1	10.5#	N		N
Tubing	- "'	2 3/8"	2823'	NEV		4.2#	N		N
Packer type and de	epth set	1/A					<u> </u>	1	1
Comment Details		surface on 13", 9 5/8	3", and 7".						
CEMENT DATA	Class/Type of Cement	Number of Sacl		Slurry vt (ppg)	Yield (ft ³/sks)	Volum (<u>ft ²</u>)		nent (MD)	WOC (hrs)
Conductor	Type 1/ 3% CaCl .25 (flake 10		15.6	1.18	88.5		face	12
Surface	Type 1/ 3% CaCl .251	flake 75		15.6	1.18	88.5	Sur	face	12
Coal						1			
Intermediate 1	Type 1/3% CaCl 2% gel .25	fake 200		14.8	1.4	280	Sur	face	12
Intermediate 2									
Intermediate 3									
Production	CBL Poz	100		13.5	1.54	154	14	70'	24
Γubing									
Drillers TD (ft Deepest forma Plug back pro Kick off depth Check all wire	tion penetrated cedure na (ft) NA	■ caliper	å densit	Plug I	ers TD (ft) 30 pack to (ft) ne	ional 🛔	induction temperature	a sonic	
	Yes 8 No	Conventi	onal S	Sidewall	W	Vere cutting	gs collected	□ Yes ■	No
	COMPLETED A		E □ Yes	■ No	DETAILS				₽D
WAS WELL (COMPLETED O	PEN HOLE?	□ Yes ■	No I	DETAILS _			ECEIVI of Oil	- ;
WERE TRACI	ERS USED	Yes A No	ТҮРЕ О	F TRACER	(S) USED _			יטאו	4
							Envi	^{Louwer} N Debe	artment of Ital Protec

API 47- 017 _ 06367

Farm name_Ryan C. Shields & Lisa Shields Well number_B-858

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	03/31/2014	2810	2813	12	Gordon
2	03/31/2014	2214	2244	14	Injun
					!
				_	
				<u> </u>	

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage	Stimulations	Ave Pump	Ave Treatment	Max Breakdown		Amount of	Amount of	Amount of
No.	Date	Rate (BPM)	Pressure (PSI)	Pressure (PSI)	ISIP (PSI)	Proppant (lbs)	Water (bbls)	Nitrogen/other (units)
1	03/31/14	5.5	2611	2794	1200	29911	202	472,757
2	03/31/14	8.0	2303	2657	1000	50072	232	364,990
								<u>:</u>
	-							
								į
							of Oil ar)
							CELVE	d Gas
							Of Oil gr	

Please insert additional pages as applicable.

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NUV 12 2014

NV Department of Environmental Protection

Page 4 of 5 WR-35 Rev. 8/23/13 Farm name Ryan C. Shields & Lisa Shields Well number B-858 API 47- 017 _ 06367 PRODUCING FORMATION(S) **DEPTHS** 2214-2244 Injun **TVD** MD 2810-2813 Gordon Please insert additional pages as applicable. □ Open Flow OIL TEST - Flow - Pump **GAS TEST** Build up □ Drawdown Surface 200 DURATION OF TEST 24 SHUT-IN PRESSURE Bottom Hole_ psi psi Oil NGL Water **OPEN FLOW** Gas GAS MEASURED BY 100 Show ■ Estimated □ Orifice □ Pilot na mcfpd bpd bpd bpd LITHOLOGY/ TOP **BOTTOM** TOP **BOTTOM DEPTH IN FT** DESCRIBE ROCK TYPE AND RECORD QUANTITYAND DEPTH IN FT DEPTH IN FT **FORMATION** DEPTH IN FT TVD MD MD TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC) NAME TVD 0 See Attached 0 Please insert additional pages as applicable. Drilling Contractor First Class Energy Address 409 Butler Road Suite A Zip 16201 Kittanning PA City State Logging Company Schlumberger Address 1080 Us Highway 33 E WV Weston Zip 26452 City State Cementing Company Universal Address 5 Hall Run Rd Zip 26201 Buckhannon WV City State Telephone 304-622-3450 Universal Stimulating Company

Completed by Daniel Berry Signature /

Please insert additional pages as applicable.

Address 5 Hall Run Rd

Title Field Operations MGR

Buckhannon

City

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS, Repartment of Environmental Protection

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Formation	Тор	Bottom	Remarks
TGL	0	7	
FILL/CLAY	7	10	
SANDY SHALE	10	15	
SHALE	15	17	
SANDY SHALE	17	20	
SAND	20	40	
RED SHALE	40	55	
SHALE	55	105	
RED SHALE	105	125	
SAND	125	150	
RED SHALE	150	160	
SAND	160	180	
RED SHALE	180	230	
SHALE	230	330	
REDROCK	330	390	
SHALE	390	450	
COAL	450	453	Damp @ 450'
SHALE	453	510	
SAND	510	540	
SHALE	540	570	
SAND	570	630	
SHALE	630	690	
SANDY SHALE	690	890	
RED SHALE	890	945	
SHALE	945	1010	
RED SHALE	1010	1070	
SANDY SHALE	1070	1220	
SHALE	1220	1300	
SAND & SHALE	1300	1700	
SHALE	1700	1920	
SAND & SHALE	1920	2000	'
SAND	2000	2200	
SHALE	2200	2280	
SAND	2280	2430	
SHALE	2430	2520	
SANDY SHALE	2520	2550	
SHALE	2550	2940	
SANDY SHALE	2940	3090	

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API 47. 033 _ 00547 W Count	y Harrison	District Grant	WV Di	epartment of
	ame Dominion	Field/Pool Name	Lost Creek	ental Protection
Farm name Ann & William S. Davisson		Well Number 11		
Operator (as registered with the OOG) Dominic	n Transmission Inc.			
Address P.O. Box 2450	City Clarksburg	State WV	Zip 26302	2
Top hole Northing 3 Landing Point of Curve Northing Bottom Hole Northing	9.14407	Easting Easting Easting		
	oe of Weli □New ■Ex		rt □Interim EF ina	
Permit Type Deviated Horizontal	☐ Horizontal 6A ☐ \	Vertical Depth Type	□ Deep 🖪	Shallow
Type of Operation 🗆 Convert 🗀 Deepen 🔾	Drill Drug Back	□ Redrilling ■ Rework	■ Stimulate	1 · 4.1
Well Type □ Brine Disposal □ CBM ■ Gas	Oil Secondary Recov	very - Solution Mining - S	Storage 🗆 Other	<u></u>
Type of Completion		BGas □ NGL BOil	■ Other Rewor	
Date completion activities began 08/04/2	ssion granted 08/03/	letion activities ceased	08/05/2014 Sam Ward	/2014
Freshwater depth(s) ft N/A Rework	Open mine(s	s) (Y/N) depths	N	
Salt water depth(s) ft N/A Rework	<u> </u>	ountered (Y/N) depths	N	·
Coal depth(s) ft N/A Rework	.,	acountered (Y/N) depths		
Is coal being mined in area (Y/N)	N/A	. / •	Reviewed by	:

WR-35 Rev. 8/23/13							44		ge 2 of 4
API 47- 033	_ 00547	Farm name	Ann & Willi	iam S. Da	avisson	We	ll number 11	299	
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)	Did cement ci	
Conductor Surface							*		
Coal									
Intermediate 1									
Intermediate 2									
Intermediate 3								<u></u>	·
Production									
Tubing									
Packer type and de	enth set								
Comment Details	No casing set rework	k well							
CEMENT DATA Conductor	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)		rield ³ /sks)	Volume (ft ¹)	Cem Top (I		WOC (hrs)
Surface	-					•			
Coal								<u> </u>	
Intermediate 1									-
Intermediate 2			 						
Intermediate 3									
Production	CLASS A	300	15.6		.23		150	יחר	8 hours
Tubing	CLASS A	300	10.0		1.23		100	,	O HOUIS
				l					
Drillers TD (ft				Loggers T					
Deepest forma Plug back pro-	tion penetrated _ cedure	BALLTOWN 3618		Plug back	to (ft)				
Kick off depth	(ft) <u>N/A</u>								
Check all wire	line logs run		density resistivity	□ deviat	ed/direction		induction temperature	□sonic	
Well cored	Yes 🖪 No	Conventional	Sidewa	ıll	We	ere cutting	s collected	□Yes ■ Ne)
DESCRIBE TI	HE CENTRALL	ZER PLACEMENT	USED FOR	EACH CA	ASING ST	TRING _			
WAS WELL O	COMPLETED A	S SHOT HOLE	□Yes ■ N	No DI	ETAILS .				
WAS WELL O	COMPLETED O	PEN HOLE?	Yes 🗆 No	DET	AILS Per	f old 4-1/2" pl;	pe		

WERE TRACERS USED

Yes

No TYPE OF TRACER(S) USED

API 47-033 _ 00547

Farm name Ann & William S. Davisson

_Well number_11299

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	08/05/2014	2790	3702	30	BALLTOWN
2	08/05/2014	2472	2476	20	BAYARD
3	08/05/2014	2406	2410	20	5TH SAND
		•			
					İ
			1		

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	08/05/14	17	1327	2468	1011	16,500	300	N/A
2	08/05/14	17	1790	2900	1421	15,000	265	N/A
3	08/05/14	17	2696	2963	3800	5,200	152	N/A
L								:
			-					
L								
		_						
			_					
					-			

WR-35 Rev. 8/23/13							:	Page <u>4</u> of <u>4</u>
API 47- 033	_ 00547	Farm	n name Ann & V	William S. Da	visson	Well numbe	_{r_} 11299	
PRODUCING	FORMATIO	<u>N(S)</u>	<u>DEPTHS</u>					:
BALLTOWN			3719	TVD		MD		
BAYARD			2476					
5TH SAND			2410					
Please insert ad	ditional page	s as applicable.						
GAS TEST			. B Open Flow	OII	LTEST #	Flow 🗆 Pum	.	
SHUT-IN PRE			psi Botto			-	OF TEST 72	hrs
OPEN FLOW	Gas	Oil	NGL bpd 0	w	ater	GAS MEAS	JRED BY	Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN F NAME TVI		TOP T DEPTH IN FT MD	BOTTOM DEPTH IN FT MD			RECORD QUANT TER, BRINE, OIL, G	[· · · · · · · · · · · · · · · · · · ·
	0		0				-	
						NO FORM	ATIONS TESTED	
							K WELL ONLY	

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			-				·	
Please insert ad	ditional page	s as applicable.		l:				
Drilling Contract		••						
Address	JUJI		City			State	Zip	
	NARODO							
Logging Compa Address 82 OLD	ELKINS ROAL)	City	BUCKHANNON	N	_State WV	Zip 26201	
Cementing Con		RHUGHES				- -		
Address 837 PH	IILIPPI PIKE		City	CLARKSBURG		State _WV	Zip <u>26301</u>	
Stimulating Cor	_{npany} NAB	ORS					•	
Address 528 INI		K ROAD	City	JANE LEW		_State _WV	Zip_26378	
Please insert add	ditional page:	as applicable.						1
Completed by	JAMES	D. Blass	Naame		Telephone	3/1/-/-	27-3367	
Signature	mail !	Denna	Title _	DTI Desia		ent Date_		
Submitted	dunulia Passe		7::		ias Store	4c	•	-
Sucmittat-OFTHY	uraunc Fract	iring Chemical	Disclosure Infor	mation At	tach copy of	FRACFOCUS	Registry	

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			WVD	epartment d
API 47 033 00575 W County Harriso	n Di	strict Grant	Environn	rental Protec
Quad Berlin 7.5 Pad Name Dom	inion Fi	eld/Pool Name	Lost Creek	
Farm name David Hinkle and Lisle C. Leighton	W	ell Number 11	387	
Operator (as registered with the OOG) Dominion Transm	nission Inc.			
	arksburg	State WV	Zip 263	802
As Drilled location NAD 83/UTM Attach an as-drill Top hole Northing 39.12208 Landing Point of Curve Northing Bottom Hole Northing	Easting	80.33663		
Elevation (ft) 1246 GL Type of Well	□New ■ Existing	Type of Repo	rt □Interim S F	inal
Permit Type Deviated Horizontal Horizon	ntal 6A 🛛 Vertical	Depth Type	□ Deep	Shallow
Type of Operation Convert Deepen Drill	□ Plug Back □ Redrillin	ng 🖺 Rework	. ■ Stimulate	
Well Type □ Brine Disposal □ CBM ■ Gas □ Oil ■ Se	condary Recovery	tion Mining 🖂	Storage 🗆 Other	•
Type of Completion	ater Intermediate hol	□ NGL	■ Other Rew	
Date permit issued	Date completion activit d 08/21/2014	ies ceased	08/21/2014 Sam Ward	21/2014
	auon within 5 days of vert	ai permission to		
Freshwater depth(s) ftN/A Rework	Open mine(s) (Y/N) dept	ths		
Salt water depth(s) ft N/A Rework	Void(s) encountered (Y/I		N N	
Coal depth(s) ft N/A Rework	Cavern(s) encountered (//N) depths	N	
Is coal being mined in area (Y/N) N/A			Reviewed	by:

API 47- 033 _ 00575

Farm name David Hinkle and Lisle C. Leighton Well number 11387

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	09/21/2014	2896	3258	30	BALLTOWN
2	09/21/2014	2288	2294	20	BAYARD
3	09/21/2014	2206	2210	20	5TH SAND
-	-				

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	09/21/14	16	998	1588	750	16,000	240	N/A
2	09/21/14	16	1568	1882	1180	10,500	217	N/A
3	09/21/14	16	1423	1831	1400	13,100	274	N/A
-								
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			,		···			

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	00575	Farm	_{name} David H	inkle and L	isle C. Leigh	ton Well numbe	_{er} 11387	
	-							
PRODUCING	FORMATION	<u>(S)</u>	<u>DEPTHS</u>					
BALLTOWN	 		3258	TVD		MD		1
BAYARD			2294					
5TH SAND	Wasai .		2212					
Please insert ac	lditional pages a	as applicable.						ļ
GAS TEST	□ Build up	□ Drawdown	■ Open Flow	•	OIL TEST	Flow 🗆 Pumj	p	
SHUT-IN PRE	SSURE Sur	face 175	psi Botto	om Hole 185	1psi	DURATION	OF TEST 24	hrs
OPEN FLOW	Gas	Oil fpd 0	NGL bpd <u>0</u>		Water bpd	GAS MEASI		Dilas
	— inc		ора <u>«</u>	_ opu _	opu	u Estimated	E Onnice	Pilot
LITHOLOGY/	TOP	BOTTOM	TOP	BOTTOM				
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN F			RECORD QUANTI	
	NAME TVD 0	TVD	<u>MD</u> 0	MD	TYPE OF F	LUID (FRESHWA'	IER, BRINE, OIL, G	AS, H ₂ S, ETC)
						-,_,		
		-						
			 				ATIONS TESTED	
			<u>-</u>			REWOR	K WELL ONLY!	
								
			<u> </u>					
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, <u>,</u>			 					<u> </u>
							<u> </u>	
Please insert ad	ditional pages a	s applicable.						
Drilling Contract	ctor N/A						•	
Address			City			State	Zip	
Logging Compa	nv NABORS							
Address 82 OLD			City	BUCKHANN	ION	State WV	Zip 26201	
C	BAKED	III ICHEO						
Cementing Con Address 837 PH		ЮПЕЗ	City	CLARKSBU	RG	S4-4- \M\	~· 26304	
		_	City			State _WV	Zip _26301	
Stimulating Cor Address 528 INI				IANELEM		- 145.4		:
Please insert add			City	JANE LEW		State	Zip _26378	
Completed by	James L	y it Lan	again.		Telephone	<u> </u>	·627-336Z	•
Signature 1	NES D.BC	<u>ASINGAME</u>		nector Gas	Storage	Date_	11/11/14	•
Submittal of Hy	draulic Fracturi	ng Chemical D	ب Disclosure Infor	Signated mation	Attach copy of	T FFRACFOCUS	Registry	



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NOV 1 8 2014

WV Department of Environmental Protection

API 47 - 033 - 00577 W County H	larrison	District Grant	
	Dominion	Field/Pool Name Lo	ost Creek
Farm name Charles R. Sutton		Well Number 113	
Operator (as registered with the OOG) Dominion T	ransmission Inc.		
Address P.O. Box 2450	ity Clarksburg	State WV	Zip 26302
Top hole Northing 39.122 Landing Point of Curve Northing Bottom Hole Northing GL Type of Permit Type Deviated Horizontal Type of Operation Convert Deepen Dr. Well Type Brine Disposal CBM Gas Oi	f Well New Existing Existence Plug Back	tical Depth Type Redrilling Rework	□Interim ■Final □ Deep ■ Shallow ■ Stimulate orage □ Other ■ Other Rework
Date permit issued04/22/2014 Date drilling Date completion activities began09/21/2014 Verbal plugging (Y/N) N Date permission Please note: Operator is required to submit a plugging Freshwater depth(s) ft N/A Rework	Date completing granted 09/22/20	Granted by	0 2 /22/2014 Sam Ward
Salt water depth(s) ftN/A Rework	Void(s) encour	tered (Y/N) depths	N
Coal depth(s) ft N/A Rework		untered (Y/N) depths	N
Is coal being mined in area (Y/N)N/A		· · ·	Reviewed by:

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API 47- 033 _ 00577

Farm name Charles R. Sutton

_Well number_11388

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	09/22/2014	2238	2248	20	5TH SAND
		· · · · · · · · · · · · · · · · · · ·			
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Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	09/22/14	16	1053	1741	1020	11,400	221	N/A
		•						
	1					<u> </u>		
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		-						
		-						:
								
<u> </u>	<u> </u>			Li				i

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API 47- 033	_ 00577		_ Farm	_{name} Cha	arles	R. Sutte	on		Well	number_	11388			
PRODUCING	FORMATIO	ON(S)		<u>DEPTHS</u>										
5TH SAND	- Oztavaraza	22.11.27				TVD			MD					
01110,410			-			_ 14D			ND					
			-				-							
														
Please insert ad	ditional pag	es as ap	plicable.											
GAS TEST	🗆 Build up	🗆 Dra	wdown	Open F	low		OIL	TEST	Flow	2 Pump				
SHUT-IN PRE	SSURE	Surface _	84	_psi	Botto	m Hole_1	896	psi	DURA?	O MOIT	F TEST	24	hrs	
OPEN FLOW	Gas 83	mcfpd	Oil 0	N bpd <u>0</u>			War 0				RED BY		Pilot	
LITHOLOGY/	TOP	E	юттом	ТОР		вотто)M						l	
FORMATION	DEPTH IN		PTH IN FT	DEPTH I	N FT	DEPTH I		DESCRIBE				-		FTC)
	NAME TV	<u> </u>	TVD	<u>MD</u>		MD		TYPE OF F	roid (rke	SHWAII	EK, BRINE,	OIL, GA	18, H ₂ 8,	BIC)
										,				
											TIONS TES WELL ON		<u> </u>	
										LITORIC	WELL ON	<u></u>		
				-										
		-											<u> </u>	
			-											
							\dashv							
Please insert ad	ditional pag	es as an	olicable.	L									<u> </u>	
Drilling Contra														
Address					City				State		Zip			
			-		•									
Logging Compa Address 82 OLI					City	BUCKHA	NNON		State	wv	Zip 26	201		
	N/A				•						P			
Cementing Con Address					City		-		State		Zip			
Stimulating Con	mpany NA	BORS												
Address 528 IN	DUSTRIAL PA	RK ROAL			City	JANE LE	w		State	wv	_ Zip _26	378		
Please insert ad	ditional pag	es as app	licable.											
Completed by	JAMES	D. B	LASING	amE				Telenhone	2/1	-67.7	-3367	, _		
Signature	- D D	Dan	<u></u>	Titl	e <u>D</u>	TI Desi	- anati	Telephone	<u></u>	Date_	1/14/1	4-		
Submittal of Hy	draulic Frac	turing C			ム	rector'	<u> .</u> બ	is Stora ich copy o	ae		•			



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State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

RECEIVED
Office of Oil and Gas

API 47-033 -00597√	County Harrison	ı I	District Grant	WV Dep	ertment of htel/ Protectio
Quad West Milford	Pad Name Domin	nion 1	Field/Pool Name	ost Creek	Tel - Toteone
Farm name William & Virginia Jenk	ins		Well Number 112	123	
Operator (as registered with the OOG)	Dominion Transmi	ssion Inc.			
Address P.O. Box 2450	City Cla	rksburg	State WV	Zip 26	302
-	Attach an as-drille Northing 39.146112 Northing		deviation survey ng 80.383769		
_	lorthing			*****	
Elevation (ft) 1192' GL		□New ■ Existing		t DInterim 🖹	Final
Permit Type Deviated Ho	rizontal Horizon	tal 6A 🛛 Vertical	Depth Type	п Деер	Shallow
Type of Operation □ Convert □ D	eepen 🗆 Drill 🗀	Plug Back	ling # Rework	■ Stimulate	
Well Type □ Brine Disposal □ CBM	# Con # Oil = Son	andami Basawani Cal	lution Minima — C	40 O4h	
Drilled with Cable Rotary Drilling Media Surface hole Air Production hole Air Mud Mud Type(s) and Additive(s)			ole □Air □Mu	d □ Fresh Wa	ter 🗆 Brine
Date permit issued 04/28/2014	Date drilling comm	nenced07/31/2014	Date drining		06/2014
Date completion activities began	07/31/2014	Date completion activ	ities ceased	08/06/2014	
Verbal plugging (Y/N) N	ate permission granted	08/06/2014	Granted by	Sam Ward	
Please note: Operator is required to sul	omit a plugging applica	ation within 5 days of ve	rbal permission to	plug	
Freshwater depth(s) ftN/A	Rework	Open mine(s) (Y/N) de	pths	N	
	Rework	Void(s) encountered (Y		N	
Coal depth(s) ftN/A Re	ework	Cavern(s) encountered		N	
Is coal being mined in area (Y/N)	N/A			Reviewed	hv

API 47- 033 _ 00597

Farm name William & Virginia Jenkins

_Well number__11423

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)	
1	08/06/2014	2404	2410	20	BAYARD	
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Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	08/06/14	17	1855	1750	1470	13,000	234	N/A
	1	-				<u> </u>		
								
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	<u></u>			Li				
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<u> </u>								

WR-35 Rev. 8/23/13											Page 4 of
API 47- 033	_ 00597		Farm	_{name} William	a & Virgin	ia Jenkir	ns	Well 1	number_	11423	
PRODUCING	FORMATI	ON(S)		DEPTHS							
BAYARD			·	2410	TVD			MD			
											
		····									
Please insert ad	lditional pa	ges as a	 applicable.								
GAS TEST	o Build up	- D)rawdown	■ Open Flow	,	OIL TE	ST 🗈	Flow c	Pump		
SHUT-IN PRE	SSURE	Surfac	e <u>120</u>	psi Bot	tom Hole 2	010	_psi	DURAT	TION O	F TEST 7	2 hrs
OPEN FLOW			Oil 1 1	NGL bpd 0	bpd	Water 0	_ bpd	GAS M	ÆASU: nated	RED BY	🗆 Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN	FT 1	BOTTOM DEPTH IN FT		BOTTO		SCRIBE I	ROCK TYI	PE AND I	RECORD QUA	ANTITYAND
	NAME T	VD T	TVD	MD 0	MD	TY	PE OF FL	UID (FRE	SHWATI	ER, BRINE, O	IL, GAS, H ₂ S, ETC)
						_				TIONS TEST	
		+			-				EWORK	WELL ONLY	!
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			•					······································			<u> </u>
				<u> </u>							
Please insert ad	ditional par	res as a	onlicable.	<u> </u>	.}						
		,	FF								
Drilling Contra Address	ctor <u>way</u>			City				State		Zip	
	NARO							5.2.0		<i></i>	
Logging Compa Address 82 OL	any NABOI DELKINS RO	AS DAD		Cit	, BUCKHA	NNON		State	wv	Zip_2620)1
		-						_ state		_ Zip	
Cementing Con Address 837 Pt		ER HU	GHES	City	CLARKS	BURG		State	wv	Zip_2630)1
Stimulating Co.	mpany NA	ABORS									
Address 528 IN	DUSTRIAL P	ARK RO)AD	City	/ JANE LE	W		State	wv	Zip263	78
Please insert ad	ditional pa	ges as a	pplicable.							·	:
Completed by		_s D	Blasin	4/14		Tel	ephone	2	4-6-	27-336	7
Signature	200	.Po		Title _	DTI De	sig nata	ed A	ent	Date	11/17/14	
Submittal of Hy	zdranlic Fro	cturing	Chemical 1	Disclosure Inf	Directo	ry Gas	Stay			•	
	A		,	n-want mill	~~ A1444VII	4 MINOUL	Sopy U	* * *^*/_1	JUUD.	rrotion à	

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State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

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Office of Oil and Gas

,			WV Depar	tment of
API 47 - 033 - 00784 W County Har	rison D	istrict Grant En	vironmenta	<u>l Protect</u>
Quad Berlin 7.5 Pad Name D	ominion F	ield/Pool Name Lo	st Creek	
Farm name Velma Shock		Well Number 1175	54	
Operator (as registered with the OOG) Dominion Trai	nsmission Inc.		i	
Address P.O. Box 2450 City	Clarksburg	State WV	Zip 26302	2
Top hole Northing 39.12456 Landing Point of Curve Northing Northing Northing	Eastin	g80.362460 g g		
Elevation (ft) 1223' GL Type of W	'ell □New ■ Existing	Type of Report	□Interim ■Fina	ıl
Permit Type Deviated Horizontal Horizontal	rizontal 6A Vertical	Depth Type	□ Deep 🖪	Shallow
Type of Operation □ Convert □ Deepen □ Drill	□ Plug Back □ Redrilli	ng 🖪 Rework	■ Stimulate	
Well Type □ Brine Disposal □ CBM ■ Gas □ Oil ■	I Secondary Recovery □ Solu	ution Mining 🗆 Sto	rage 🗆 Other	
Drilled with □ Cable □ Rotary Drilling Media Surface hole □ Air □ Mud □Fresh Production hole □ Air □ Mud □ Fresh Water □ I Mud Type(s) and Additive(s)		le □Air □Mud	□ Fresh Water	□ Brine
Date permit issued 11/28/201413 Date drilling of 08/26/2014 Date completion activities began 08/26/2014 Verbal plugging (Y/N) N Date permission graduaters	Date completion activity	Date drilling c ties ceased 0 Granted by	eased 09/10 9/10/2014 Sam Ward	/2014
Please note: Operator is required to submit a plugging ap	pplication within 5 days of ver	bal permission to pl	ug	
Freshwater depth(s) ftN/A Rework	Open mine(s) (Y/N) dep	ths	N	
Salt water depth(s) ft N/A Rework	Void(s) encountered (Y/	N) depths	N	
Coal depth(s) ftN/A Rework	Cavern(s) encountered (N	
Is coal being mined in area (Y/N) N/A	·		Reviewed by:	

WR-35								
Rev.	8/23	3/13						
		033						

Rev. 8/23/13									
API 47- 033	- 00784 Farm name_Velma Shock Well number_11754								
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		asket :pth(s)		circulate (Y/N)
Conductor		<u> </u>					72.07	T.OVIGO (JOHN TO W
Surface									***
Coal								 	
Intermediate 1								 	
Intermediate 2									
Intermediate 3									
Production							-	-	
Tubing				• • • • • • • • • • • • • • • • • • • •					!
Packer type and de	epth set		<u> </u>			l		1	
Comment Détails	No casing set rework	well							
CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)		ield ³/sks)	Volume (ft.2)	Ceme		WOC
Conductor	or canon	Of Backs	Wr (ppg)	<u></u>	/383)		Top (M	10)	(hrs)
Surface						· · · · · ·	 		
Coal							 		
Intermediate 1									
Intermediate 2								<u> </u>	1
Intermediate 3				_					
Production	CLASS A	200	15.6	1	.23		190	0'	8 hours
Tubing							1		0.110413
_) <u>2354</u> tion penetrated <u>B</u> cedure			Loggers Ti Plug back					
Kick off depth Check all wire		■ caliper in neutron	□ density □ resistivity		d/direction ray	nal □ indo □ tem		□sonic	
	Yes # No					e cuttings c			į
DESCRIBE TE	E CENTRALIZ	ER PLACEMENT	r USED FOR	EACH CA	SING STI	RING			
WAS WELL C	OMPLETED AS	SHOT HOLE		lo DE	TAILS				
WAS WELL C	OMPLETED OP	EN HOLE?		DETA	ILS Perfo	old 4-1/2" pipe			
WERE TRACE	RS USED DY	es 🖩 No T	YPE OF TRA	CER(S) U	SED				

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API 47- 033 00784

Farm name Velma Shock

Well number 11754

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)	
1	09/10/2014	2354	2360	20	BAYARD	
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Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	09/10/14	16	1555	1384	1580	20,000	337	N/A
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WR-35 Rev. 8/23/13 Farm name_Velma Shock Well number_11754 API 47- 033 _ 00784 **DEPTHS** PRODUCING FORMATION(S) 2360 **BAYARD** TVD MD Please insert additional pages as applicable. **GAS TEST** ☐ Build up ☐ Drawdown ■ Open Flow OIL TEST # Flow | Pump Surface 550 Bottom Hole 1863 DURATION OF TEST 72 hrs SHUT-IN PRESSURE psi _psi Oil NGL Water GAS MEASURED BY **OPEN FLOW** Gas □ Pilot mcfpd SHOW bpd □ Estimated ■ Orifice 119 bpd bpd TOP LITHOLOGY/ TOP BOTTOM **BOTTOM FORMATION** DEPTH IN FT DEPTH IN FT DEPTH IN FT DEPTH IN FT DESCRIBE ROCK TYPE AND RECORD QUANTITYAND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC) ΜD NAME TVD MD 0 0 NO FORMATIONS TESTED REWORK WELL ONLY! Please insert additional pages as applicable. Drilling Contractor N/A Address City State Zip Logging Company NABORS Address 82 OLD ELKINS ROAD **BUCKHANNON** State WV Zip 26201 City Cementing Company BAKER HUGHES Address 837 PHILIPPI PIKE CLARKSBURG City Zip 26301 State Stimulating Company NABORS Address 528 INDUSTRIAL PARK ROAD JANE LEW Zip 26378 City State WV Please insert additional pages as applicable. Completed by Telephone ASINGAME Signature Date 1117/14 Pirectory Gas Storage Attach copy of FRACFOCUS Registry Submittal of Hydraulic Fracturing Chemical Disclosure Information

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State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

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Office of Oil and Gas

. 1		Environment of
API 47 033 00891 County Harri	son District Grant	Environmental Protection
Quad Mount Clare 7.5 Pad Name Do		Lost Creek
Farm name Worthy C. Hall	Well Number 1	
Operator (as registered with the OOG) Dominion Trans	smission Inc.	
	Clarksburg State WV	Zip 26302
As Drilled location NAD 83/UTM Attach an as-drawding Point of Curve Northing Bottom Hole Northing Bottom Hole Northing GL Type of We Permit Type Deviated Horizontal Horizontal Horizontal Deepen Drill Well Type Brine Disposal CBM Gas Oil	Easting 80.33752 Easting Easting Basting Easting Contact of A vertical Depth Type Plug Back Redrilling Rework Secondary Recovery Solution Mining Coduced Brine Res NGL Original NGL Coduced Coduc	ort Interim Final Shallow
Production hole	rine	
Date permit issued 04/14/2014 Date drilling co		40/04/44
Date completion activities began 10/24/2014	Date completion activities ceased	10/24/14 Sam Ward
Verbal plugging (Y/N) N Date permission gran	nted 10/24/2014 Granted by	Sain ward
Please note: Operator is required to submit a plugging app	lication within 5 days of verbal permission t	o plug
Freshwater depth(s) ftN/A Rework	Open mine(s) (Y/N) depths	N
Salt water depth(s) ft N/A Rework	Void(s) encountered (Y/N) depths	N
Coal depth(s) ft N/A Rework	Cavern(s) encountered (Y/N) depths	N
Is coal being mined in area (Y/N) N/A	· · ·	Reviewed by:

TYPE OF TRACER(S) USED

WERE TRACERS USED

Yes No.

API 47- 033 _ 00891 Farm name Worthy C. Hall

_Well number_11938

PERFORATION RECORD

Stage		Perforated from	Perforated to	Number of	
No.	Perforation date	MD ft.	MD ft.	Perforations	Formation(s)
1	09/24/2014	3212	3388	25	BALLTOWN
2	09/24/2014	3008	3024	20	SPEECHLEY
3	09/24/2014	2392	2400	20	BAYARD
4	09/24/2014	2314	2324	20	5TH SAND
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-					
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Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	09/24/14	17	1197	1808	1025	16,400	268	N/A
2	09/24/14	17	1486	2820	950	14,200	241	N/A
3	09/24/14	17	1774	1800	1436	10,000	219	N/A
4	09/24/14	17	1700	1355	1520	18,600	300	N/A
					_			

WR-35 Rev. 8/23/13							Pa	age <u>4</u> of <u>4</u>
API 47- 033	_ 00891	Farm	_{name} Worthy	C. Hall		Well number	11938	
PRODUCING	FORMATION	<u>((S)</u>	DEPTHS					
BALLTOWN			3388	_TVD		MD		
SPEECHLEY			3024					
BAYARD			2400					
5TH SAND			2324					
Please insert ad	lditional pages	as applicable.						
GAS TEST	□ Build up	□ Drawdown	■ Open Flow	OI	LTEST 8	Flow 🗆 Pump)	
SHUT-IN PRE	SSURE Su	rface 250	_psi Botto	m Hole 1922	psi	DURATION (OF TEST 72	hrs
OPEN FLOW		Oil ofpd 0		W bpd 0	ater bpd	GAS MEASU	JRED BY B Orifice P	'ilot
LITHOLOGY/ FORMATION	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	TOP DEPTH IN FT	BOTTOM DEPTH IN FT			RECORD QUANTIT	1
	NAME TVD	TVD	MD	MD	TYPE OF FI	LUID (FRESHWAT	ER, BRINE, OIL, GA	S, H ₂ S, ETC)
	0		0		İ			
							· · · · · · · · · · · · · · · · · · ·	
						NO FORM	ATIONS TESTED	
						REWORI	WELL ONLY!	-
					 			
								
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		+						
Please insert ad	ditional pages	as applicable.	<u>.</u>		<u>. </u>			
Drilling Contra	ctor N/A	•						
Address			City			State	Zip	
Logging Compa	NARORS					,,,,,,,,,,		
Address 82 OLI	DELKINS ROAD		City	BUCKHANNO	N	State WV	Zip_26201	
Cementing Con Address 837 Ph	ILIPPI PIKE	HUGHES	City	CLARKSBURG	3	State _WV	Zip 26301	
Stimulating Con	mpany NABO	ORS						
Address 528 IN		(ROAD	City	JANE LEW		State WV	Zip _26378	
Please insert ad	ditional pages	as applicable.					•	1
Completed by	\ALGE T) Busine			Tolonkan-	BA 1	3767	
Signature	me O.D	Comments of the	Title \	Desia-		<u> </u>		+
			$\overline{\mathcal{I}}$		Gas Std	rage	• • •	ta.
Submittal of Hy	draulic Fractu	ring Chemical I	Disclosure Infor	mation A	ttach copy of	f FRACFOCUS	Registry	